



# UNITED STATES PATENT AND TRADEMARK OFFICE



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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P. DO. 1490 Alexandria, Vuginia 22313-1450

	FILING DATE	FIRST NAMED INVENTOR  Uzodinma Okoroanyanwu	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,143	03/28/2001		39153/405 (F0945)	3964
7590	08/06/2003			
Katherine D. Lee			EXAMINER	
FOLEY & LARDNER Firstar Center			EL SHAMMAA, MARY A	
777 East Wisconsin Avenue Milwaukee, WI 53202-5367			ART UNIT PAPER NUMBER	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s) /1/			
Office Action Summary		09/820,143	OKOROANYANWU ET AL.			
		Examiner	Art Unit			
	-	Mary A. El-Shammaa	2881			
	communication app	pears on the cover sheet with the c				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communica	tion(s) filed on					
2a)☐ This action is <b>FINAL</b> .	2b)⊠ Th	is action is non-final.				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>						
4)⊠ Claim(s) <u>1-20</u> is/are pendin	g in the application	l <b>.</b>				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>7-20</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 6</u> is/are rejected.						
7)⊠ Claim(s) <u>2-5</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 March 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the	2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a)             The translation of the foreign language provisional application has been received.</li> <li>15)            Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing</li> <li>Information Disclosure Statement(s) (PTO)</li> </ol>	Review (PTO-948) O-1449) Paper No(s) <u>3.</u>	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Trademark Office						

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41.

#### **DETAILED ACTION**

# Specification

The disclosure is objected to because of the following informalities: The U.S Application numbers are missing from the CROSS REFERENCE TO RELATED APPLICATIONS.

Appropriate correction is required.

# Drawings

The drawings are objected to because the lines, numbers, and letters are not uniformly thick and well defined, clean durable, and black (poor line quality). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Doong (5,747,803).

Regarding claim 1, Doong discloses in Fig. 1 a method of inspecting a surface associated with manufacture of an integrated circuit (10), the method comprising the steps of providing an

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electron beam (e<sup>-</sup>) to the surface; transforming at least a portion of the surface (12); and inspecting the surface using a scanning electron microscope (SEM) wherein the transforming step occurs before the inspecting step (Col. 1, Lines 7-12; Col. 3, Lines 20-47).

Regarding claim 6. Doong discloses the inspecting step including at least one of preventing volatile species from leaving the surface and substantially dissipating a charge built up in the surface (Col. 2, Lines 15-24, 34-61; Col. 3, Lines 40-47; Col. 4, Lines 21-27).

### Allowable Subject Matter

Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-20 are allowed. The following is an examiner's statement of reasons for allowance: The prior art fails to teach or fairly suggest, in addition to the accompanying features of the claims, a treated region encapsulating and untreated region of a photoresist layer, wherein this treated region does not outgas volatile organic species and prevents outgassing from the untreated region. The Applicants teach that the treated region forms a shell having uniform electrical and optical properties, thereby promoting smooth dissipation of any built-up charge, which, in turn, reduces distortion or damage, increases the accuracy of the CD measurements, and eliminates degradation of the image contrast.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mary A. El-Shammaa whose telephone number is 703.308.0851.

The examiner can normally be reached on M-F (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R. Lee can be reached on 703.308.4116. The fax phone numbers for the

organization where this application or proceeding is assigned are 703.872.9318 for regular

communications and 703.872.9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703.872.9317.

MAE

July 25, 2003

JUNN H. LEE

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TECHNOLOGY CENTER 2800